TDI
Transistor Devices

SDL1072A Series
AC Resistive Loads
Operation Manual

TDI-Dynaload® Division

Document Number 403825 — Revision A

Disclaimer

The contents of this document, including all specifications, are subject to change without notice.

Mandatory Customer Information
Federal Communications Commission (FCC) Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy; and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at their expense.

Trademarks

Dynaload is a registered trademark of Transistor Devices, Inc.

Ordering Information

The ordering number for this document is 403825 Rev A. To order this or any other document, contact:

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Online Availability

To find out more about TDI and our products, visit us on the web at: http://www.tdipower.com/ or visit TDI-Dynaload directly at: http://www.tdipower.com/dynaload/.

Customer Services

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SDL1072A Technical Description: Custom Resistive AC Load

Overview

The load assembly consists of 2 isolated channels using 1 KW resistors.

Each channel provides either 2 KW of load at 208 VAC input or can be connected as 2 -1 KW inputs with a common return, for 120 VAC inputs.

Inputs

The load inputs are standard terminal blocks, located on the rear of the cabinet. Also on the rear is a selector switch for choosing either 208 or 120 VAC operation. This switch will allow the user to change the operating voltage without having to open the cabinet.

Elements

The actual load elements are two 15 ohm resistors wired with multiple tap locations to provide a resistive load of 14.4 ohms at 120VAC (8.33 Amps, I000 Watts) with respect to the return. Or when wired for 208VAC, will provide 21.6 ohms (9.62 Amps, 2000 Watts).

Channels

Each load channel has an internal 24 VDC power supply to operate the fan and selector relays. The input to this supply will be derived from the actual load inputs. The exact ohmic value of the load resistors will be adjusted to make the additional power draw transparent to the load channel.

Protection

Over current protection is through the use of a double pole circuit breaker, located on the front panel.

Remote operation

Remote control of front panel "Load On" functions is provided for with a connection on the rear panel.

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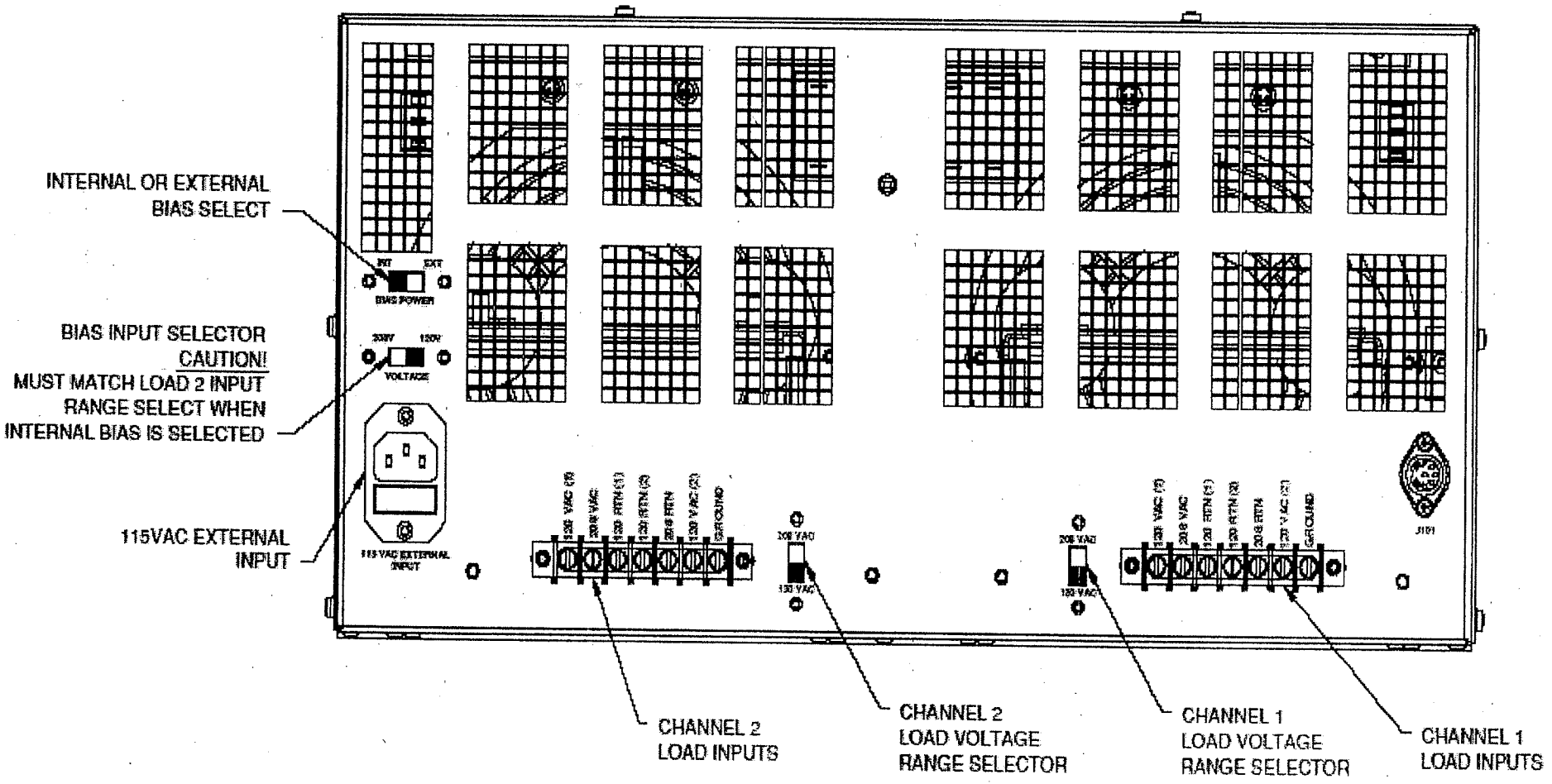
SDL1072A Switch Functions

SDL 1072A
SWITCH FUNCTIONS/DESCRIPTIONS

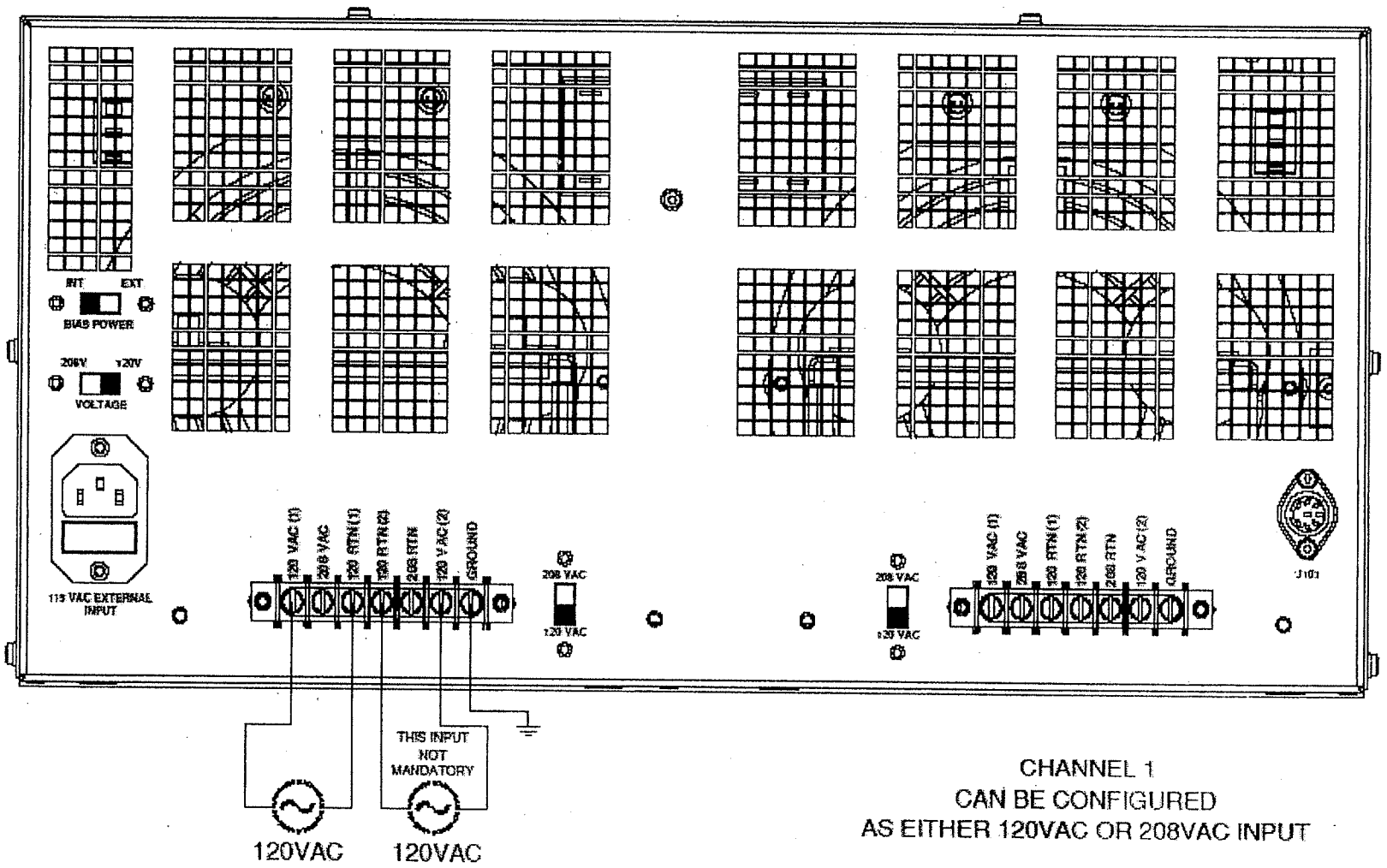


REAR VIEW

SDL1072A

120 VAC Configuration

SDL 1072A
CONFIGURATION FOR:
120VAC INTERNAL BIAS MODE

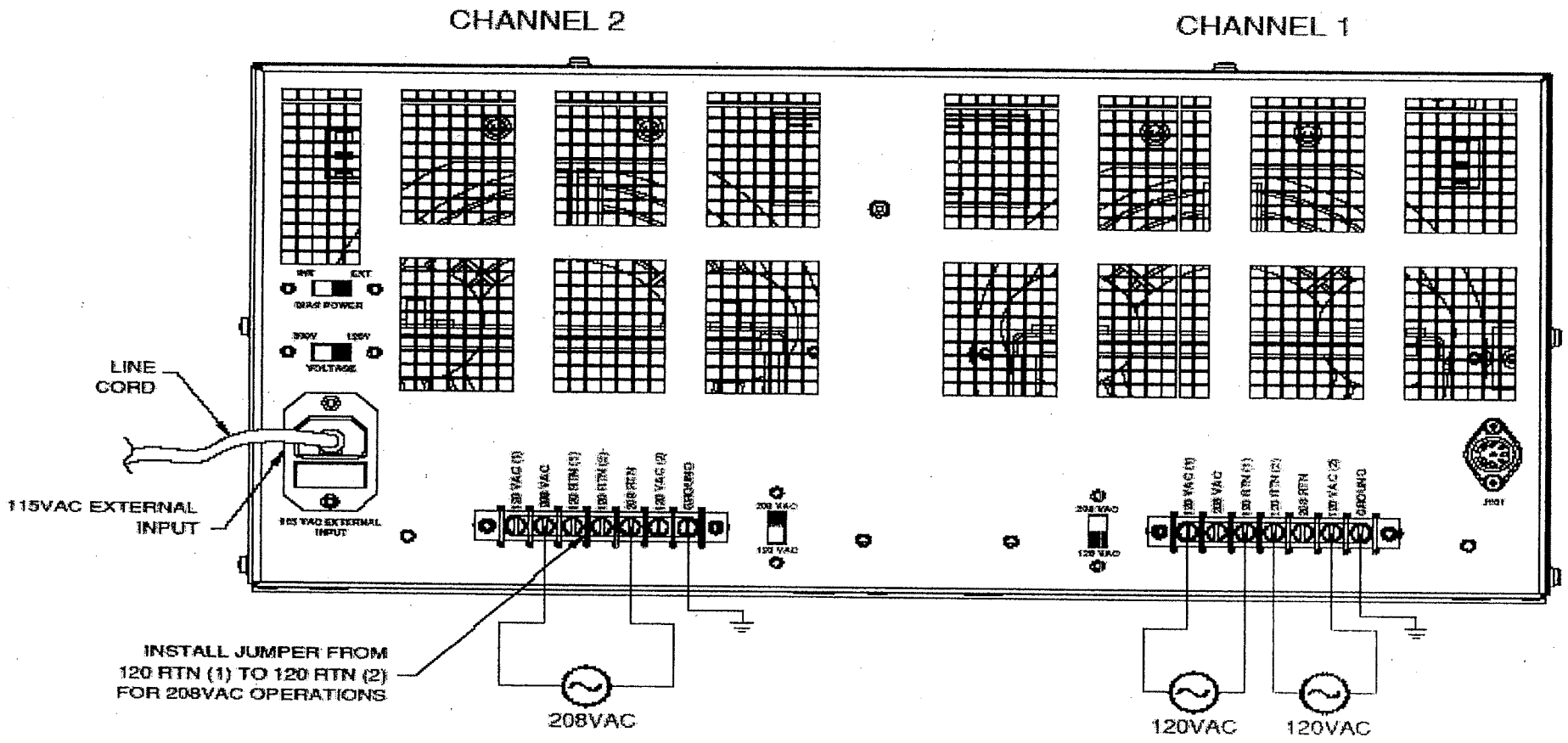


MUST USE CHANNEL 2-1 FIRST
FOR INTERNAL BIAS OPERATIONS

CHANNEL 1
CAN BE CONFIGURED
AS EITHER 120VAC OR 208VAC INPUT

115 VAC Configuration

SDL 1072A
CONFIGURATION FOR:
115VAC EXTERNAL BIAS MODE



JUMPER 120 RTN (1) TO 120 RTN (2)

CHANNEL 1 AND CHANNEL 2
CAN BE CONFIGURED
AS EITHER 120VAC OR 208VAC INPUTS

SHOWN CHANNEL 1 AS 120VAC AND CHANNNEL 2 AS 208VAC

208 VAC Configuration

SDL1072A
CONFIGURATION FOR:
208VAC INTERNAL BIAS MODE